

OptiReel

OptiReel Plus
Number One in material efficiency



Metso's WaterJet turn-up device reduces spool waste to the minimum.

OptiReel Plus

100% reeling performance



Metso Paper's fully automatic OptiReel Plus delivers 100% optimum performance for mills producing challenging grades with stringent operating conditions – even on high-speed production lines with online calendering and/or coating. Capable of reeling up to 4.4-meter diameter parent rolls, OptiReel Plus has a highly beneficial effect on material efficiency and actually improves finishing area capacity.

OptiReel Plus represents the second generation of Metso Paper's pioneering center-driven reels. The first OptiReel was introduced in 1992 and is today an industry standard with well over a hundred installations in paper, board and tissue mills around the world.

Engineered for super heavy duty, OptiReel Plus is suitable for all paper grades. Operators find OptiReel Plus very easy to run thanks to its task-oriented user interface. And they appreciate the special features such as advanced local and remote troubleshooting tools.

Exceptional roll build-up

What really makes OptiReel Plus exceptional is the quality of parent roll build-up delivered.

Instead of controlling only the nip load and tension in the roll, like traditional reels, OptiReel Plus uses a third parameter, torque, to control reeling tightness. This parameter is adjusted via primary and secondary center drives, which also contribute to a wider nip load control window.

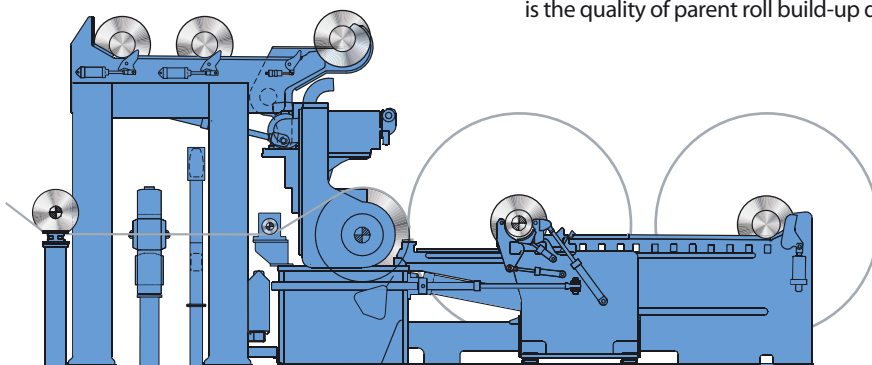
Excellent parent roll build-up minimizes reeling-related losses, improves downstream runnability, and makes it possible to wind large diameter rolls. The recipe-based reeling parameter control allows OptiReel Plus to adapt to different reeling conditions, like those experienced on a multiple grade paper or board machine.

With primary and secondary carriages and closed loop force/position control, OptiReel Plus enables easy and accurate control of hydraulics and nip load. OptiReel Plus also features an automatic reeling sequence.

The most efficient turn-up methods available

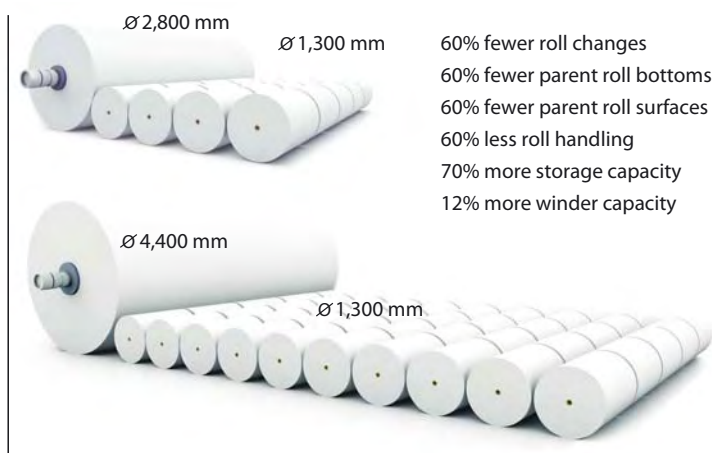
To perfect turn-up, Metso Paper provides a wide range of possibilities. For example, the fully automatic WaterJet turn-up system ensures fast and clean parent roll changes and minimized bottom waste. For heavier grades where a gooseneck-type air pick-up is not suitable, WaterJet is available with a tape pick-up. Newsprint and SC grades benefit using our patented nip open turn-up system.

OptiReel Plus



OptiReel Plus in figures:

- Max. parent roll width 10.8 m
- Max. parent roll weight 140 t
- Max. parent roll diameter 4.4 m
- Design speed 2,300 m/min



The effect of larger parent roll diameter on line efficiency and capacity is significant in producing paper and coated board.

Material efficiency increase in two ways

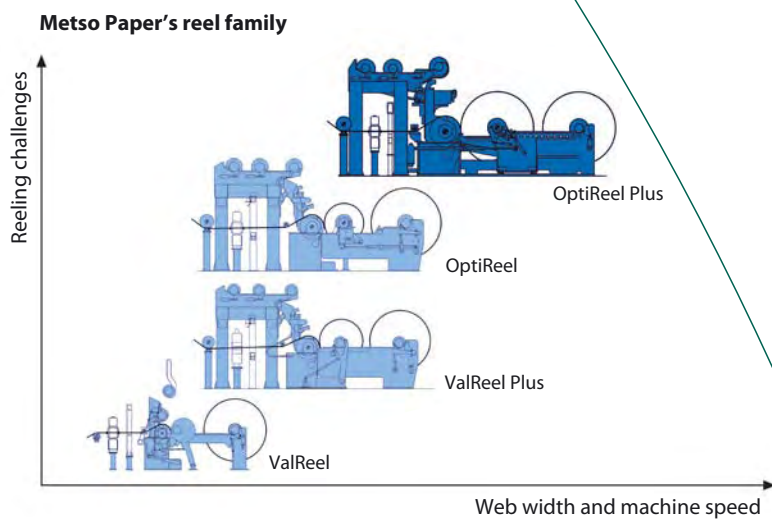
OptiReel Plus delivers a two-way positive effect on material efficiency: by making parent roll diameters up to 4.4 meters possible and by keeping spool and surface waste to the absolute minimum. These capabilities ensure a major capacity increase in the finishing area.

Here is an example case. A reel producing 2,500 mm parent rolls may leave as much as 1,500 m (2.6%) waste on every spool. By installing OptiReel Plus and new spools it is possible to increase the parent roll size to 3,700 mm and reduce spool waste to 500 m (0.35%) on each roll. In this case, the application of OptiReel Plus and new spools improves material efficiency 2.25%!

Other OptiReel Plus features:

- Parent roll loading device for eliminating parent roll surface broke
- Paper grade specific reel drum groovings and covers
- Soft roll covers to tolerate profile CD variation, improve air control and dampen vibration
- Fast reel drum changing
- Parent roll CD oscillation for up to 140 t parent rolls





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